### **OWNER'S MANUAL** MANUAL DE INSTRUCCIONES



# **DVD PLAYER / Hi-Fi VIDEO CASSETE RECORDER** DVD COMPACTOS/VIDEOGRABADOR Hi-Fi ESTEREO

# MVD4540







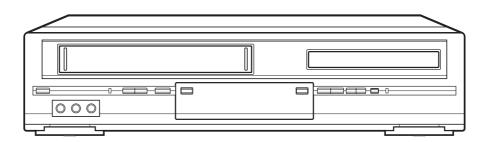












### **ATTENTION ATENCION**

If you purchase a universal remote control from your local retailer, please contact the remote manufacturer for the required programming code.

Si usted a comprado un control remoto universal, por favor comunicace con el fabricante para el codico de programaccion requerido.

### TV/CATV MODE SELECTION **SELECCION DE MODO DE TV/CATV**

When shipped from the factory, the TV/CATV menu option is set to the "CATV" (Cable Television) mode.

If not using CATV (Cable TV), set this menu option to the "TV" mode.

Al salir la unidad de fábrica, la opción de menú de TV/CATV se ajusta al modo de "CATV" (Televisión por cable).

Si no utiliza CATV, ajuste esta opción de menú al modo de "TV".

Before operating the unit, please read this manual thoroughly. Antes de usar la unidad, lea detenidadmente este manual de instrucciones.

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### **ENGLISH**





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLI-ANCE TO RAIN OR MOISTURE.

### NOTE:

Please keep all packaging material for at least 90 days in case you need to return this product to your place of purchase or Memorex.

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

> However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the partly responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

### **CAUTION:**

THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS USER'S GUIDE CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION-SEE SERVICE PROCEDURE.

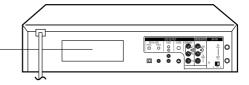
USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM.

### Location of the required Marking

The rating sheet and the safety caution are on the rear of the unit.

CERTIFICATION: COMPLIES WITH FDA RADIATION PERFORMANCE STANDARDS, 21 CFR SUBCHAPTER J.





### IMPORTANT SAFEGUARDS

#### 1. READ INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated.

### 2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

### 3. HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

#### 4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

### 5. CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning the exterior cabinet only.

### 6. ATTACHMENTS

The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards.

### 7. WATER AND MOISTURE

Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool. PORTABLE CART WARNING (symbol provided by RETAC)

#### 8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit.

**8A.** An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

### 9. VENTILATION

Slots and openings in the cabinet back or bottom are provided for ventilation, to ensure reliable operation of the unit, and to protect it from overheating.

These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and/or the manufacturer's instructions have been adhered to.

### 10. POWER SOURCES

This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

### 11. GROUNDING OR POLARIZATION

This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug, if your unit is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

### 12. POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

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# **IMPORTANT SAFEGUARDS**

### 13. LIGHTNING

To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

#### 14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

#### 15. OVERLOADING

Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.

### 16. OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

### 17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

#### 18. SERVICING

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

### 19. DAMAGE REQUIRING SERVICE

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the unit.
- c. If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
- e. If the unit has been dropped or the cabinet has been damaged.
- f . When the unit exhibits a distinct change in performance, this indicates a need for service.

### 20. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock or other hazards.

### 21. SAFFTY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

### 22. WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

### **23. HEAT**

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

### 24. DISC TRAY

Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.

### 25. CONNECTING

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

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# IMPORTANT SAFEGUARDS / Power Source

### 26. LASER BEAM

Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.

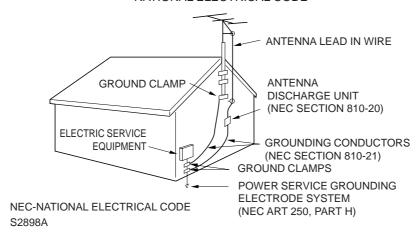
#### 27 DISC

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

### 28. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



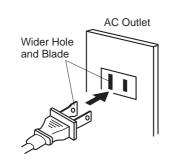
### **CONDENSATION**

Moisture will form in the operating section of the DVD/VCR if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the DVD/VCR's performance will be impaired.

To prevent this, let the DVD/VCR stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the DVD/VCR is exposed to the breeze from an air conditioner. In such cases, change the location of the DVD/VCR.

### **Power Source**



Polarized AC Cord Plug (One blade is wider than the other.)

### TO USE AC POWER SOURCE

Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.

### **NOTES:**

- Never connect the AC line cord plug to other than the specified voltage (120V 60Hz). Use the attached power cord only.
- If the polarized AC cord does not fit into a non-polarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.
- If you cause a static discharge when touching the unit and the unit fails to function, simply unplug the unit from the AC outlet and plug it back in. The unit should return to normal operation.



### **Features**

### **DVD/CD Player/Video Cassette Recorder**

- DVD/CD player with Video Cassette Recorder Unique space saving design combines a DVD/CD player and a Hi-Fi Video cassette recorder. The DVD disc has much more capacity, but is the same size as the audio CD disc. Picture quality is higher than Super VHS. Audio quality is higher than audio CD. The DVD PLAYER can play back audio CDs.
- High Quality Picture More than 500 lines (VCR mode: 230 lines) of Horizontal Resolution. It exceeds Super VHS (400 lines) or Laser Disc (430 lines) in resolution.

#### VCR Section

- Stereo/SAP Reception This VCR is designed to receive stereo and separate audio program (SAP) broadcasts where available.
- 4 Video Heads Provides optimal picture quality for special effects playback.
- 19µm HEAD For superior picture quality even in SLP mode, 19micron width technology helps to avoid crosstalk and boost SLP picture quality to near SP levels. With precision technology, ghosts and color beats are virtually eliminated.
- Hi-Fi Stereo Sound With a frequency response of 20 to 20,000 Hz and a dynamic range of better than 90dB, this VCR provides a level of excellence that rivals compact discs.
- One-touch Timer Recording (OTR) Simply by pressing the REC/OTR button, the VCR can be programmed for up to 5 hours of recording with an immediate start.

### **DVD Section**

- Compatible with a wide range of DVD audio outputs Digital Audio Jack (Optical or Coaxial):
  - When a component with a built-in Dolby Digital decoder is connected, Dolby Digital sound can produce the effect of being in a movie theater or a concert hall.
  - DTS is a surround sound standard different from Dolby Digital. This format is already in use at many theaters. By connecting this unit to a DTS decoder or an AV amplifier with a built-in DTS decoder, the DTS audio of DVD discs recorded in this format can be enjoyed. However, audio will not be output from the analog audio output jacks.
  - The MPEG audio of DVD discs recorded in this format can be enjoyed.
  - The Linear PCM sound of a 48 kHz/16 bit through 96 kHz/20 bit exceeds audio CD sound.
- Multi-Language Since this DVD matches with 136 language-subtitles/-soundtracks, you can enjoy selecting a favorite one. (You can not select the language that is not recorded on the disc.)
- Multi-Angle Pictures of Sports or a Live Concert are recorded with many cameras. When you play such a disc, you can change the angles during playback. (If a Multi-Angle is not recorded on the disc, you can not change the angle.)
- Repeat Playback You can repeat chapter, track, title, sides or material between two selected points.
- Memory/Random Playback You can play back tracks, titles or chapters in programmed or random-selected sequences.
- Zoom You can zoom in on the selected subject on the screen during playback.
- Video Aspect Ratio You can change the aspect ratio of the screen for your monitor/television on a suitable disc.
- Parental Control You can limit the playback of scenes or sounds of adult DVD discs which have a parental level rating.

- \* This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.
- \* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.
- \* "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- \* Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.



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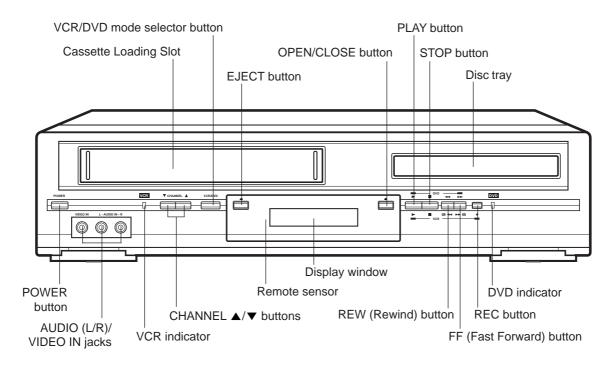
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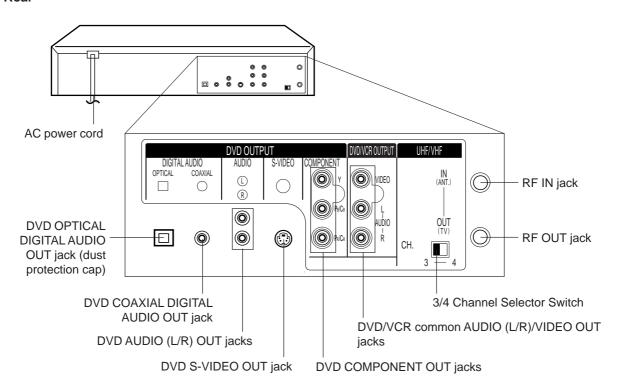


### Parts and functions

### **Front**

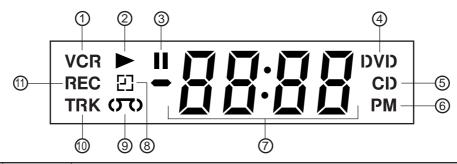


### Rear



# **Display**

### Display window

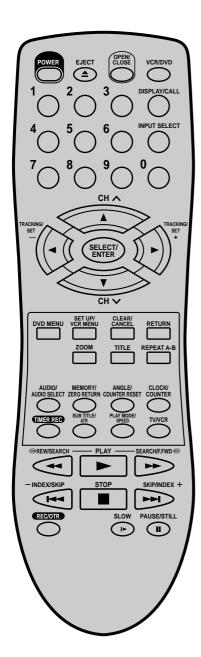


No.	Display	Description		
1	VCR	VCR mode		
2		layback (lights) / Auto resume (flashes)		
3		Still picture		
4	DVD	DVD disc is inserted.		
⑤	CD	CD is inserted.		
6	PM	Display for afternoon (not lit during morning hours)		
	10:00	Clock display (colon[ : ] flashes)		
	01:00	Counter display by hour/minute at VCR/DVD / by minute/second at CD		
	2	Track number display for CD		
7	C002	TV channel display for VCR		
	C036	CATV channel display		
	L	External input display		
8	23	Timer recording display		
9	ഗ	Video tape is in the unit		
100	TRK	Track display for CD		
11	REC	Normal recording display (flashes during One-touch Timer Recording - OTR)		

### Note:

Some discs may be displayed wrong or e.g. chapter number, playback time, etc. may not be displayed.

# Remote control



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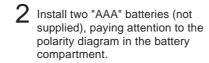




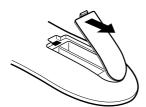
### Remote control

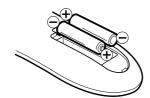
### **Inserting Batteries**

1 Open the battery compartment cover in the direction of the arrow.



Replace the compartment cover.







### **Battery precautions**

The precautions below should be followed when using batteries in this device:

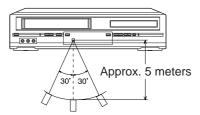
- 1. Use only the size and type of batteries specified.
- 2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device. To avoid a potential short circuit, insert the "-" end first.
- 3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
- 4. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- 5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)

### Remote control basics

- Press POWER to turn the DVD/VCR on or off.
- Make sure VCR/DVD switch is set to VCR/DVD.
- Tap CH ∧ or CH ∨ to move through the channels one channel at a time.
- The CH ^/∨ and SET +/- are also used to navigate on-screen menu system.
- You can directly access specific channels using Number keys pad.
- Each press of VCR/DVD on the remote control, switches the screen between the VCR screen (VCR mode) and the DVD screen (DVD mode).

### Operation

- Aim the remote control at the remote sensor and press control buttons to operate.
- Operate the remote control within 30° angle on either side of the remote sensor, up to a distance of Approx. 5 meters.



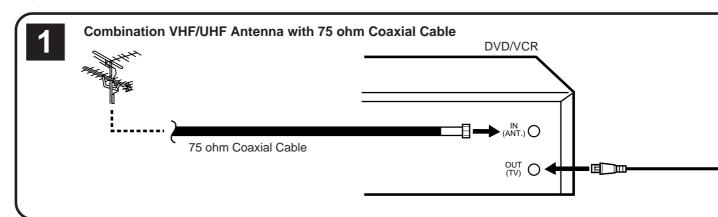


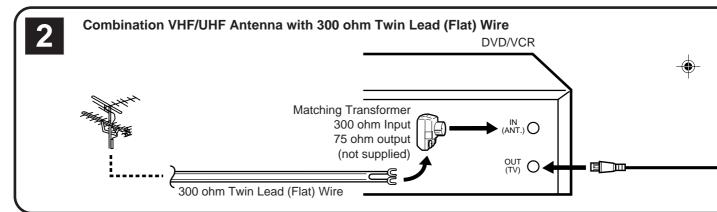
### **Basic connections**

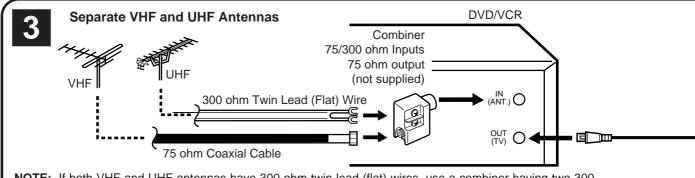
If you are using an antenna system, follow these instructions. If you are a cable (CATV) subscriber, skip ahead to page 14 for the proper connections.

### ANTENNA TO DVD/VCR CONNECTION

The DVD/VCR must be connected "between" the antenna and the TV. First, disconnect the antenna from the TV and connect it to the DVD/VCR. Then connect the DVD/VCR to the TV. Below are 3 common methods of connecting an antenna system to a DVD/VCR. Find the type of antenna system you are using and follow the connection diagram.







**NOTE:** If both VHF and UHF antennas have 300 ohm twin lead (flat) wires, use a combiner having two 300 ohm inputs and one 75 ohm output.

- **NOTES:** A clear picture will not be obtained by the DVD/VCR unless the antenna signal is good. Connect the antenna to the DVD/VCR properly.
  - For better quality recording, an indoor antenna or a telescopic antenna is not recommended. The use of an outdoor type antenna is required.
  - If you are not sure about the connection, please refer to qualified service personnel.



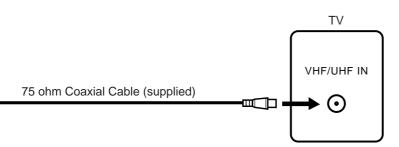


### **Basic connections**

### DVD/VCR TO TV CONNECTION

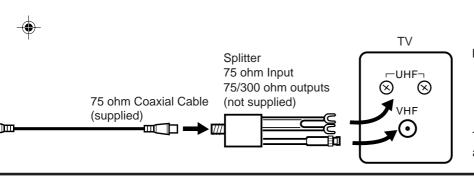
After you have connected the antenna to the DVD/VCR, you must connect the DVD/VCR to the TV. Below are 3 common methods of connecting your DVD/VCR to a TV. Find the type of TV you are using and follow the connection diagram.

This DVD/VCR has a single 75 ohm output for connection to a TV. If your TV has separate VHF and UHF antenna inputs (numbers 2 and 3 below), use a splitter to connect the DVD/VCR to the TV for VHF and UHF reception.



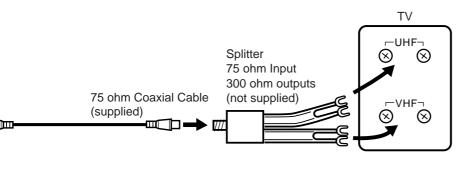
NOTE: If a VHF or UHF antenna is used, set the TV/CATV menu option to the "TV" mode.

TV with single 75 ohm VHF/UHF antenna input



NOTE: If a VHF or UHF antenna is used, set the TV/CATV menu option to the "TV" mode.

TV with 300 ohm UHF and 75 ohm VHF antenna inputs



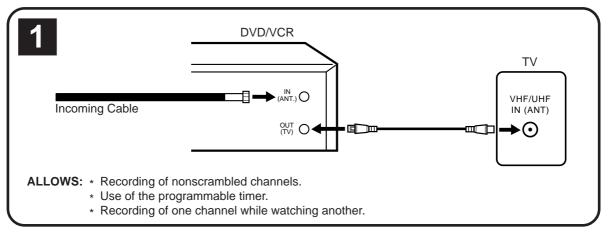
NOTE: If a VHF or UHF antenna is used, set the TV/CATV menu option to the "TV" mode.

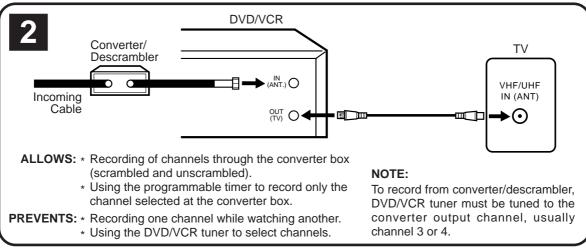
TV with 300 ohm UHF and 300 ohm VHF antenna inputs

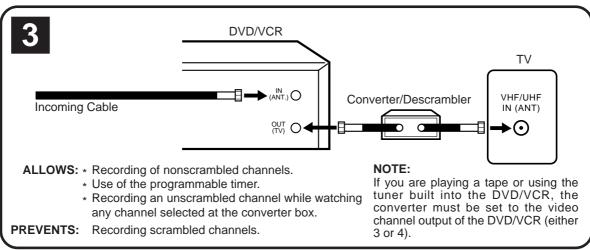


# **CATV (CABLE TV) connections**

Many cable companies offer services permitting reception of extra channels including pay or subscription channels. This DVD/VCR has an extended tuning range and can be tuned to most cable channels without using a cable company supplied converter box, except for those channels which are intentionally scrambled. If you subscribe to a special channel which is scrambled, you must have a descrambler box for proper reception.







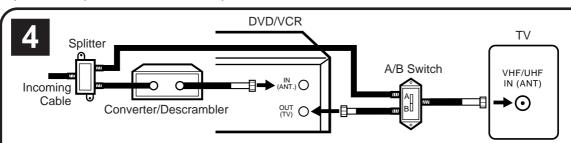
**NOTE:** Whenever a Converter/Descrambler box is placed before the DVD/VCR, you must tune the DVD/VCR to the output of the Converter/Descrambler box, usually channel 3 or 4.



### CATV (CABLE TV) connections

### IMPORTANT: Make sure the TV/CATV menu option is set to the "CATV" mode.

This DVD/VCR cannot receive scrambled programs since it does not contain a descrambler. In order to receive scrambled programs, your existing descrambler must be used. Descrambler boxes are available from cable companies. Consult your local cable company for more information concerning connection to their descrambler equipment. There are many ways to connect your DVD/VCR to a cable system. Below are six common methods of connection.

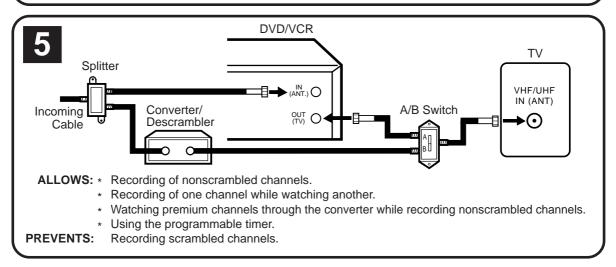


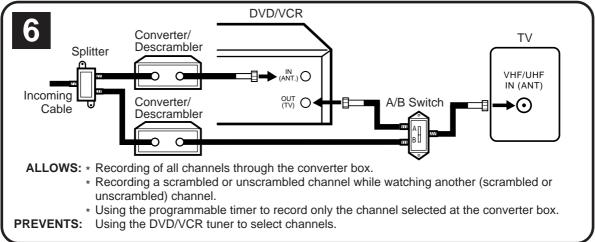
**ALLOWS:** \* Recording of one channel while watching another.

- \* Using the programmable timer to record only the channel selected at the converter box.
- \* Recording of all channels through the converter box.

PREVENTS: \* Watching scrambled channels while recording another channel.

\* Using the DVD/VCR tuner to select channels.





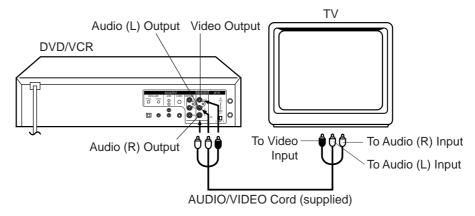


### **Playback connection**

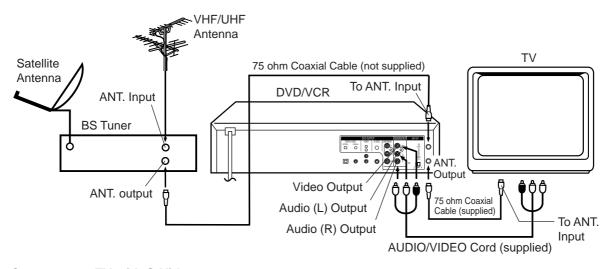
The exact arrangement you use to interconnect various video and audio components to the DVD/VCR is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

### Connect to a TV with Audio/Video Output

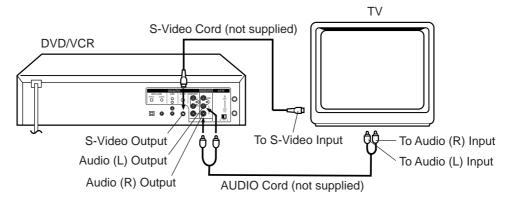
Use the supplied AUDIO/VIDEO Cord.



### Connect to a BS TUNER



### Connect to a TV with S-Video Output





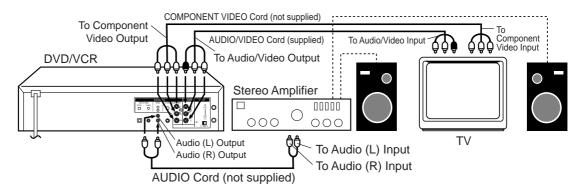




### Playback connection

### Connect to a Stereo Amplifier with Audio Output

If your TV has a COMPONENT VIDEO IN jack, you can connect the DVD/VCR to the TV with a COMPONENT cable (not supplied) as shown below. COMPONENT VIDEO output jack can send higher quality video signal to a TV than S-Video output.

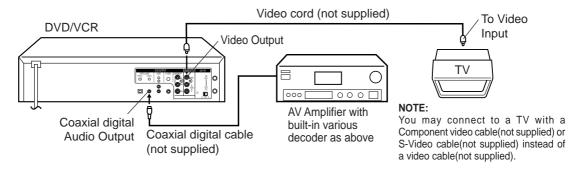


### Connect to an AV Amplifier with built-in digital surround

If you are using an Amplifier with a built-in digital surround as follows, you can enjoy the various audio systems such as Dolby Digital and DTS by using the Optical or Coaxial Digital Output.

### Use this connection to connect an:

- AV amplifier with built-in \*Dolby Digital decoder
- AV amplifier with built-in \*DTS decoder



### Connecting the optical digital cable

You may connect to an AV Amplifier with an Optical digital cable (not supplied) instead of a Coaxial digital

When you connect the optical digital cable (not supplied), remove the dust protection cap from the rear panel. When not using the optical digital cable, attach the dust protection cap to protect against dust.

- The OPTICAL, COAXIAL, DVD AUDIO L/R, S-VIDEO and COMPONENT jacks are useful only for DVD section. On these connections, VCR functions can not be used and also the VCR MENUs don't appear.
- VHS signal is output only from the composite jack (DVD/VCR VIDEO/AUDIO OUTPUT) and UHF/VHF OUT.
- When you make the connections above, do not set DOLBY DIGITAL to DOLBY DIGITAL or DTS to ON on the AV Amplifier. If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.
- Caution for the optical digital audio output connector: Do not connect to an amplifier (with an optical digital input connector) which does not contain a Dolby Digital or DTS decoder. Otherwise, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers
- DTS audio will be output only from the COAXIAL or OPTICAL output. To hear DTS audio, DTS-Decoder is
- When playing DTS-encoded CDs, only noise will be heard from the speakers or analogue stereo outputs.
- Some DTS decoders which do not support DVD-DTS interface may not work properly with the unit.

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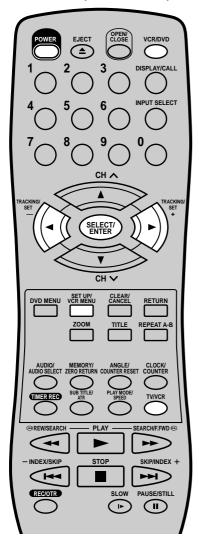


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# Setting the video channel / Setting the language

### Setting the video channel

To view playback of a recorded tape or DVD disk, or to watch a program selected by the VCR's channel selector, the TV must be set to channel 3 or 4 (video channel).



### NOTES:

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- If the unit does not operate properly, or if it does not respond to commands via the unit and/or the remote control: Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
- Both the VCR and the DVD have their own menu option (See page 36).
- If no buttons are pressed for more than 60 seconds, the MENU screen will return to normal TV-operation automatically.

When a TV is connected with the 75 ohm coaxial cable only.

- 1 Press POWER to turn on the DVD/VCR.
- Press VCR/DVD to select the VCR mode. The VCR indicator on the front panel will light.
- 3 Set the 3/4 Channel selector switch on the rear panel to CH 3 or 4.
- 4 Turn ON the TV and set to CH 3 or 4 to correspond with the channel selected in step 3.
- 5 Press **TV/VCR** to select the VCR position. The VCR indicator will appear in the display.
- 6 Select any channel to receive a TV station in your area. The channel number will appear on the screen for about 4 seconds.

### For a push-button TV tuner

If CH 3 or 4 corresponding to the video channel cannot be tuned on your TV, proceed as follows: set the VCR 3/4 channel selector and the TV to CH 3 or 4, play back a prerecorded tape and tune the TV to receive a sharp color picture from the video cassette recorder. Refer to your TV owner's manual for details.

### Setting the language

You can choose from three different languages (English, French and Spanish) for the on-screen displays.

- 1 Press VCR MENU, If you use the unit for the first time and press VCR MENU, instead of the main menu screen on the right the "SYSTEM SET UP" menu screen in step 2 may appear.
- Press ◀ or ▶ to select the "LANGUAGE" option, then press ENTER.

MENU TIMER REC SET AUTO REPEAT

SYSTEM SET UP

(+/-/ENTER/MENU)

ON ▶OFF

Press ◀ or ▶ to select the desired language: English (ENGLISH), Spanish (ESPAÑOL) or French (FRANCAIS), then press ENTER.

LANGUAGE/IDIOMA/LANGUE

▶ENGLISH

ESPAÑOL

FRANCAIS

⟨+/-/ENTER/MENU⟩

4 Press VCR MENU until the MENU screen is cleared.

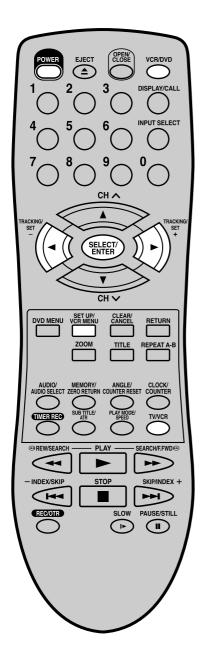






### Auto clock setting

The Auto Clock feature enables automatic clock setting and updating, and also automates Time Zone and Daylight Saving Time settings by receiving XDS (Extended Data Service) information carried on the channel signal.



### NOTE:

- After performing the Auto Clock setting, in some cases the clock may display an incorrect time zone. You can correct the clock by selecting your Time Zone setting per the instructions
- When the clock is not set or you set the clock manually, Time Zone setting is not available.

You must set the antenna connection before the AC cord plug is inserted into the AC outlet.

### Auto clock setting

After you set the antenna connection and plug the AC cord into an AC outlet (in that order), you must WAIT 30 MINUTES before turning the power switch to the on position to prevent interference with the Auto Clock activation function.

After the clock is set automatically, you may have to set the Time Zone and Daylight Saving Time.

Press POWER to turn on the DVD/VCR after the Auto Clock operation is completed.

- When shipped from factory, the AUTO CLOCK option is set to ON position.
- If you turn the DVD/VCR on during Auto Clock setting, the clock is not set.
- · With cable box connection, if the Auto Clock Setting is unsuccessful, please select the PBS channel carrying the XDS information, then turn the DVD/VCR off. After 30 minutes, turn the DVD/VCR on, and if the clock is not set automatically, set the clock manually. (See page 21)

### Time Zone setting (STANDARD TIME)

In the rare event that you live within broadcast range of two stations in two different time zones, the DVD/VCR may recognize the wrong station for the AUTO CLOCK set. To correct the situation:

### Preparation:

- Turn ON the TV.
- When a TV is connected with an audio/video cable, select the video input mode on the TV.
- When a TV is connected only with an antenna cable, set to the video channel 3 or 4. Then select VCR position with TV/VCR.
- Press VCR/DVD to select the VCR mode. (The VCR indicator will
- Press VCR MENU. The VCR menu screen will appear. Press  $\blacktriangleleft$  or  $\blacktriangleright$  to select the SYSTEM SET UP menu, then press ENTER.
- Press ◀ or ▶ to select the "STANDARD TIME" option, then press ENTER.



Press ◀ or ▶ to select your Time Zone, then press the ENTER.



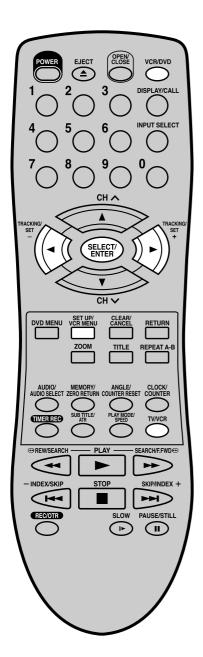
⚠ Press VCR MENU until the MENU screen is cleared.



### **Auto clock setting**

### Daylight saving time setting

You can set the Daylight saving time automatically or manually.



### Preparation:

- Turn ON the TV.
- When a TV is connected with an audio/video cable, select the video input mode on the TV.
- When a TV is connected only with an antenna cable, set to the video channel 3 or 4. Then select VCR position with TV/VCR.
- Press VCR/DVD to select the VCR mode. (The VCR indicator will light.)
- SYSTEM SET UP

  CLOCK SET

  LANGUAGE/IDIOMA/LANGUE

  NO NOISE BACKGROUND

  AUTO CLOCK ON OFF

  AUTO CLOCK ON OFF

  AUTO SAVING TIME

  LANGUAGE

  (+/-/ENTER/MENU)
- Press ◀ or ▶ to select one of the options, then press ENTER.

**ON:** for manual setting

(forward one hour)

**OFF:** for manual setting

(back one hour)

AUTO: for automatic setting

(read XDS in the signal)

DAYLIGHT SAVING TIME
ON
OFF
►AUTO

(+/-/ENTER/MENU)

When you want to set the Daylight Saving Time manually, on the first Sunday in April you set to "ON", and on the last Sunday in October you set to "OFF".

### NOTES:

- When shipped from factory, the DAYLIGHT SAVING TIME option is set to "AUTO" position.
- When the clock is not set, Daylight Saving Time setting is not available.
- When there is no Daylight Saving Time in your area, always select "OFF" position in step 2.





### Manual clock setting

You must set the date and time for timer recordings.

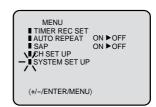
# • Pre will



- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the VCR mode. (The VCR indicator will light.)

**EXAMPLE:** Setting the clock to "8:30 AM" March, 23 (SAT), 2002.

- 1 Press VCR MENU. The VCR menu screen will appear.
- Press ◀ or ▶ to select the "SYSTEM SET UP" menu, then press ENTER.



Press ◀ or ▶ to select the "CLOCK SET" option, then press ENTER.



4 Press ◀ or ▶ to set the month, then press ENTER.



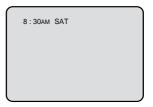
To make corrections any time during the process

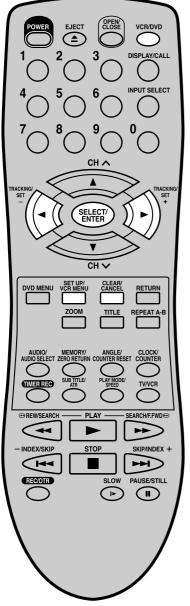
Press CANCEL repeatedly until the item you want to change blinks, then press ◀ or ▶.

5 Set the day, year and time as in step 4.



6 After setting the clock, date and time starts functioning automatically.





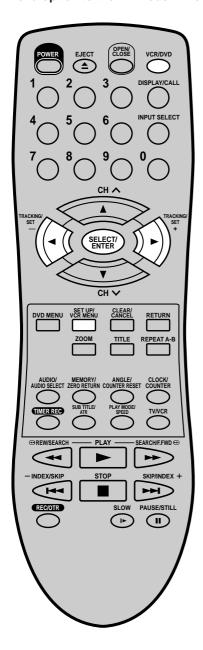


After a power failure or disconnection of the power, the timer settings will be lost. In this case, reset the present time.



### **Tuner setting**

This DVD/VCR is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the DVD/VCR's memory. In addition to normal VHF and UHF channels, this DVD/VCR can receive up to 113 Cable TV channels. To use this DVD/VCR with an antenna, set the TV/CATV menu option to the TV mode. When shipped from the factory, this menu option is in the CATV mode.



### NOTE:

You can't select "CH SET UP" if you set the channel to "L".

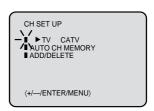
### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the VCR mode. (The VCR indicator will light.)

### TV/CATV selection

- 1 Press VCR MENU. The VCR menu screen will appear. Press

  ✓ or ▶ to select "CH SET UP", then press ENTER.
- Press or to select the "TV/CATV" option.



Then press **ENTER** to select the TV or CATV mode. The arrow indicates the selected mode.





4 Press VCR MENU until the menu screen is cleared.

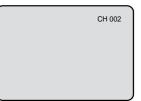
### Setting channels automatically

The VCR can receive a maximum of 181 channels by presetting the channels into memory.

8/29/02, 11:01 AM



Then press **ENTER**.
The auto tuning will start. The channel display will count up and when finished, the screen returns to normal.



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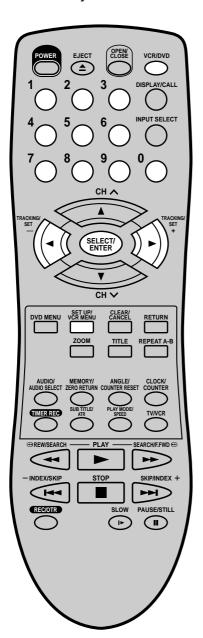
2A77001AE(22-27)



### To ADD/DELETE channels / Noise elimination

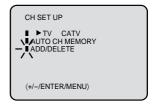
### To ADD/DELETE channels

You can add the channels you want or delete the channels you do not want manually.



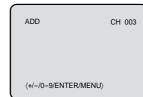
### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the VCR mode. (The VCR indicator will light.)
- 1 Repeat the step 1 on page 22. Then press ■ or ■ to select the "ADD/DELETE" option and press ENTER.



### 7 To Add or Delete desired channels

1 Press Number keys or ◀ / ▶ to select a channel number you want to add or delete.



2 To add channels
Press FNTFR until

Press **ENTER** until "ADD" appears on the screen to set to add the unmemorized channel.

### To delete channels

Press **ENTER** until "DELETE" appears on the screen to set to delete the channel from memory. The channel number will blink.

- 3 Repeat 1 to 2 to add or delete other channel.
- 3 Press VCR MENU until the menu screen is cleared.

### **Noise elimination**

When you don't want to receive a weak signal broadcast, the Blue back screen can be obtained by selecting the NO NOISE BACKGROUND "ON". When the unit is shipped from the factory, the NO NOISE BACKGROUND is set to the "ON".

- 1 Repeat the steps 1~2 on page 21 and press ✓ or ► to select "NO NOISE BACKGROUND".
- Press ENTER to select the "ON" position.



3 Press VCR MENU until the menu screen is cleared.



### Loading and Unloading a cassette tape

Use only video cassette tapes marked VHS.

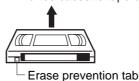
### Loading

Push the center of the tape until it is automatically inserted.





Insert the cassette tape with its labeled side facing up and the erase prevention tab positioned at your left. An inverted cassette tape cannot be inserted.





### **Automatic power ON**

When you insert a cassette tape the VCR power will turn ON automatically.

### Automatic playback

When loading a cassette tape without an erase prevention tab, playback will start automatically.

### Unloading

1 Press **EJECT** on the unit or the Remote.



2 Remove the cassette tape.

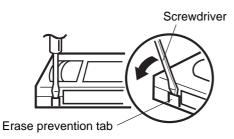


### Automatic tape eject

This VCR will automatically rewind the tape when the tape has ended. When the tape is rewound to its beginning, the cassette tape will be ejected automatically.

### To prevent accidental erasure

 $Remove \ the \ erase \ prevention \ tab \ with \ a \ screwdriver.$ 



### To record again

Cover the hole with a piece of adhesive tape.



### Tape speed and maximum recording time

Tana Spand	Video cassette tape				
Tape Speed	T-160	T-120	T-90	T-60	T-30
SP (Standard Play)	2-2/3 hours	2 hours	1-1/2 hours	1 hour	30 minutes
SLP (Super Long Play)	8 hours	6 hours	4-1/2 hours	3 hours	1-1/2 hours

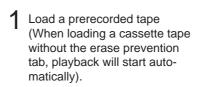




### Cassette tape playback

### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the VCR mode. (The VCR indicator



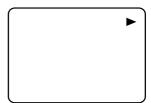


### To start playback

Press PLAY.

Playback will start.

" ▶ " will appear on the screen for about 4 seconds.



### To stop playback

Press STOP once.

for about 4 seconds.



The tape will stop but remain fully loaded and ready to play.

" | will appear on the screen



### To rewind the tape or forward it rapidly

Stop the playback or recording with STOP.

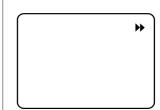
### To rewind the tape:

Press REW.



### To forward the tape:

Press F.FWD.



To stop the tape-winding, press STOP. To switch to playback directly (without STOP), press PLAY.

### Forward/Reverse picture search mode

When the tape is being wound, you can switch to picture search mode (see next page). To do this, press REW or F.FWD and hold it down. The unit will resume the tape winding as soon as the button is released.



NOTES:

• This VCR selects the playback tape speed SP, LP or SLP automatically.

 $(\Box)$ 

- The Cassette tape and DVD disc can be played back simultaneously. If you press VCR/DVD, the tape playback and DVD playback alternate with each other on the screen.
- When you select the VCR mode during DVD playback, DVD playback will stop automatically after approx. 5 minutes.







### **Picture Search**

Reverse picture search function

Press **REW** x 1 or x 2 during the playback.

Forward picture search function

Press **F.FWD** x 1 or x 2 during the playback.

To return to playback: Press PLAY.

### **SPEED SEARCH TIMES**

TAPE SPEED	PICTURE SEA	ARCH SPEED
IAPE SPEED	PRESS ONCE	PRESS TWICE
SP (Standard Play)	3 X	5 X
LP (Long Play)	7 X	9 X
SLP (Super Long Play)	9 X	15 X

#### Still Picture

Press **PAUSE** during playback. To resume normal playback: Press **PLAY**.

### **Slow Motion**

During playback press SLOW.

To return to playback: Press PLAY or SLOW.

### Slow tracking and vertical lock adjustment

If noise bars appear in the picture during slow motion, press the **TRACKING** + or – to reduce the noise bars. If the still picture jitters excessively, press **TRACKING** + or – to stabilize the still picture.

### Frame by Frame picture

Press PAUSE during playback.

Press **SLOW** repeatedly. The picture advances frame by frame.

To return to playback: Press PLAY or PAUSE.

### Adjusting tracking condition

### **Automatic tracking adjustment**

Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

### Manual tracking adjustment

If automatic tracking cannot eliminate noises sufficiently during playback, press **TRACKING +/**– to eliminate the noises.

"MANUAL TR." will appear. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.

Press ATR to reactivate automatic tracking again.
 "AUTO TR." will appear.

### NOTES:

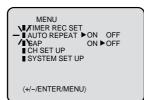
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- The audio output is muted during SPEED SEARCH, STILL, FRAME ADVANCE and SLOW MOTION.
- During picture search mode there will be noise bars which are caused by the system.
- The Special Playback will automatically change to playback after approx. 5 minutes to protect the video tape against excessive wear.

### Repeat playback

The entire video tape will be played until its end. The tape will then automatically rewind to the beginning and the playback will be repeated.

- 1 Press **SETUP MENU**. Press **◄** or **▶** to select AUTO REPEAT.
- Then press ENTER to select [ON] or [OFF]. If [ON] is selected, the playback will be repeated endlessly.



3 Press VCR MENU until the menu screen is cleared.

if you press CALL, "" will appear on the screen.

To start the playback, press **PLAY**.
The playback will be repeated endlessly.

### To cancel repeat mode:

Follow the above step 1, then press **ENTER** to select the OFF position. Press **VCR MENU** to return to the TV.



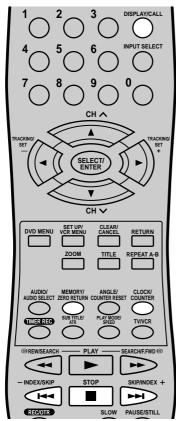




### **ZERO RETURN function / Video index search system**

### **ZERO RETURN function**

This function makes tape-rewinding stop at the counter 00:00:00 position automatically.



### NOTES for Counter Display:

- If you rewind the tape beyond "00:00:00", a minus sign ("-") will be displayed in front of the time.
- When you load a tape, the counter will reset to "00:00:00".
- The counter does not function on nonrecorded (blank) sections of the tape. When you rewind, fast forward or play tapes through blank sections, the counter stops.

### NOTES for Video index search system:

- When you record an INDEX mark at the very beginning of the tape, the mark may not be found.
- During INDEX search, the tape may stop and begin to play at a slightly different location.
- INDEX may not function properly with old or worn out video tapes.
- INDEX marks may not be found if it is extremely close to the point where the search began.
- In recording, if you stop recording temporarily, the INDEX mark is not recorded on the tape.

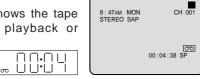
27

### Preparation:

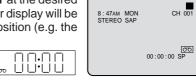
- Turn ON the TV and set it to the video input mode.
- Press VCR/DVD to select the VCR mode. (The VCR indicator will light.)

### 1 Press CALL.

The counter display shows the tape running time during playback or recording.



Press COUNTER RESET at the desired tape position. The counter display will be reset to the "00:00:00" position (e.g. the begining of recording).

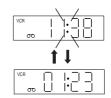


Press STOP when playback or recording is finished. Press ZERO RETURN.

The tape will be rewinded or fast forwarded and automatically stop at the "00:00:00" position.

### The CLOCK/COUNTER-button

Press **CLOCK/COUNTER**. The clock and tape counter alternate with each other in the display.

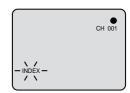


### Video index search system

This function enables you to locate the beginning of any recording made on the VCR.

### **Recording an INDEX MARK**

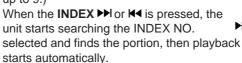
The Index Search function automatically records an INDEX mark on the tape whenever a recording is initiated.



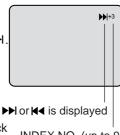
### **Index Search**

Press **INDEX** ►► or ►< during stop or play mode.

For Succeeding programs: Press INDEX ►►I For Preceding programs: Press INDEX ►►I. (Additional press increases the INDEX NO. up to 9.)



To stop the Index Search, press STOP.

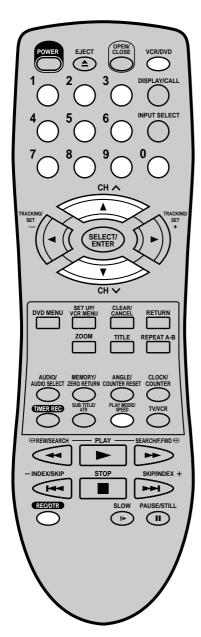


INDEX NO. (up to 9)





### Recording and viewing the same TV program



- If the erase prevention tab is removed, the tape will eject when REC/OTR is pressed for recording.
- If you wish to watch the DVD playback during the normal recording on VCR, press VCR/DVD to change to DVD mode and perform the DVD playback (see page 37).
- · You can not record disc material in DVD, Video CD, Audio CD, etc. onto a video tape with this DVD/VCR.

28

### Preparation:

seconds.

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the VCR mode. (The VCR indicator will light.)
- Load a cassette tape with the erase prevention tab intact.

The VCR will automatically turn on. ெ

Press **SPEED** to select the desired tape speed SP or SLP. The tape counter and SP or SLP will appear on the screen for about 4

00:00:00 SP

Set the TV/CATV option to the appropriate position (See page

- VHF/UHF channels CATV - CABLE TV channels

- Press Number keys or CH ^/v to select the channel to be recorded.
  - 1-9 Press 0 twice and then 1-9 as required. Example: To select 2, Press "002".
  - 10-12 Press 0 first and then the remaining 2 digits in order from left to right.

Example: Press 012 for "12".

13-99 Press 2 digits in order.

Example: Press 22 for "22". 100-125 Press the 3 digits in order.

Example: Press 110 for "110".

CH 110

### VHF/UHF/CATV CHANNELS

TV	CATV	
VHF	VHF	
2-13	2-13	
UHF 14-69	STD/HRC/IRC 14-36 (A) (W) 37-59 (AA) (WW) 60-85 (AAA) (ZZZ) 86-94 (86) (94) 95-99 (A-5) (A-1) 100-125 (100)(125) 01 (5A)	

Press REC/OTR.

• " will appear on the screen for about 4 seconds and "REC" will appear on the display.





### Recording a TV program

### To stop recording

Press STOP to stop recording.

" I will appear on screen for about 4 seconds



### To stop recording temporarily

Press **PAUSE/STILL** to avoid recording unwanted material. Press again to continue the recording.

" •II " will appear on screen for about 4 seconds.



### NOTES:

- The pause function will be released after 5 minutes to prevent damage to the tape or the VCR. The VCR will change to the STOP mode.
- You can select a recording channel in the recording pause mode.

### Recording one program while watching another

While the VCR is recording, press **TV/VCR** to select the TV position. The "VCR" will go off and recording will continue.

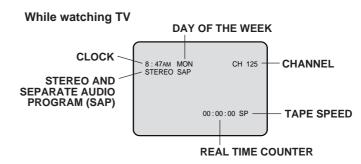
Select the TV channel you want to watch by using the TV channel selector.

### NOTE:

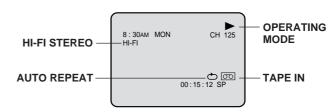
Some CATV hookups do not permit viewing one channel while recording another. See pages 14,15.

### To Display VCR operation Status

Press **CALL**. The clock, day of the week and more information will be indicated.

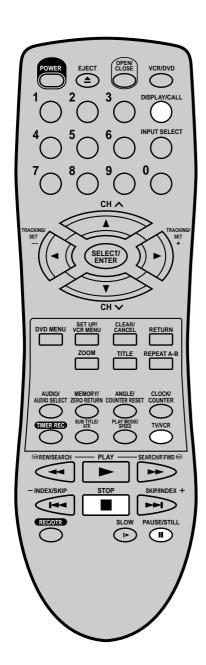


### While operating a tape



To cancel the display: Press CALL until all indicators disappear.

ar. **29** 



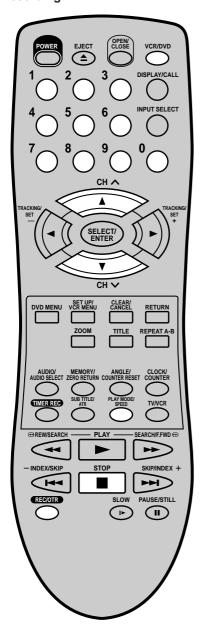
### **Auto Rewind feature**

This VCR will automatically rewind the tape when the tape has ended (except during OTR and TIMER REC). It will also eject the tape.





The One-touch Timer Recording feature provides a simple and convenient way to make a timed recording.



### NOTE:

If you wish to watch the DVD playback during the OTR, press **DVD/VCR** to change to DVD mode and perform the DVD playback (see page 37).

### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the VCR mode. (The VCR indicator will light.)

**Example:** One-touch Timer Recording for 30 minutes.

1 Load a cassette tape with the erase prevention tab intact.

The VCR will automatically turn on.



Press **SPEED** to select the desired tape speed SP or SLP.

The tape counter and SP or SLP will appear on the screen for about 4 seconds.



3 Set the TV/CATV option to the appropriate position (See page 22).

TV - VHF/UHF channels CATV - CABLE TV channels

4 Press Number keys or CH ^/∨ to select the channel to be recorded.



Press REC/OTR. Press the button again to stop recording after 30 minutes. Each additional press of REC/OTR will increase recording time as shown in the chart below, up to a maximum of 5 hours. The OTR and recording time will appear on the screen for about 4 seconds. And, REC will keep blinking in the display.

Press	Recording time	Press	Recording time
once	NORMAL REC	6 times	3:00
twice	0:30	7 times	4:00
3 times	1:00	8 times	5:00
4 times	1:30	9 times	NORMAL REC
5 times	2:00		



### To cancel OTR

Press **STOP** or turn off the power.

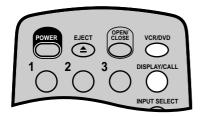
" 
" will appear on screen for about 4 seconds.

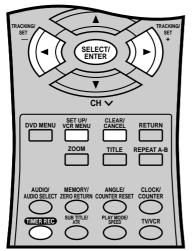




### **Timer recording**

Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programs within 1 month.





### **NOTES:**

- If the clock symbol(□) blinks when the timer recording ended, the TV program has not been completely recorded because of an insufficient tape supply.
   Press TIMER REC to cancel the timer program or press EJECT to remove the cassette tape.
- During timer recording standby mode, the VCR mode cannot be selected. To use the VCR, press TIMER REC at first, then press VCR/DVD to change to VCR mode. After you use the VCR, press TIMER REC again to put the VCR into timer recording standby mode.
- If you press TIMER REC during timer recording, the recording operation will be interrupted. If you press TIMER REC again within the programmed time, the recording operation will start again.
- After a power failure or disconnection of the power plug, all programmed recording settings and time display will be lost upon resumption of power. In this case, reset the clock (see page 21) and reprogram any timer recordings.

### Preparation:

- Press VCR/DVD to select the VCR mode.
   Load a cassette tape with the erase prevention tab intact.
- Press the CALL button to verify that the time and date are correct (see page 29).

**Example:** Program a timer recording for the 26th day, channel 125 (CATV), 11:00 - 11:30 PM on timer program number 1 (Tape speed: SLP).

1 Press VCR MENU. Select the "TIMER REC SET" option , then press ENTER.



Press **SET +** or – to select one of the program line, then press **ENTER**.



Press SET + or – to select the date, then press ENTER.



A Set the **start time**, **end time**, **channel** and **tape speed** as in step **3**.

### NOTES:

- Press **CANCEL** to move cursor backward for correction.
- To record from external source set the channel to "L". "L" will appear next to CH 125 (or 69).
- 5 To enter other programs, repeat step 2 through 4.
  - To return to the normal screen, press VCR MENU twice.



<+/—/ENTER/CANCEL/MENU>

DATE START END CH 1 26(SU) 11:00PM 11:30PM 125sP

Press TIMER REC. The clock symbol(②) will appear on the display and the VCR stands by for recording. At the same time, VCR mode will change to DVD mode automatically. You can use DVD even if the VCR is in the Timer recording mode. If you do not use the DVD, turn the power off. The timer recording will start at 5 seconds before the time you predetermined.

### NOTES:

- If the clock symbol( ) does not appear on the display in spite of the pressing of **TIMER REC**, the cassette may not have been loaded yet. (see page 24)
- If the cassette is ejected in spite of the pressing of TIMER REC, the erase prevention tab of the cassette may have been removed. (see page 24)



2A77001AE(28-33)

### Timer-recording

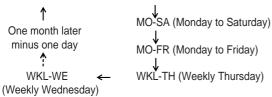
### Timer recording special case

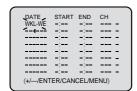
Weekly (e.g. WKL-TU: each Tuesday) or daily (e.g. MO-SA: Monday to Saturday) Timer recording

Follow the procedure of timer recording on the previous page. At picture **3** press **SET** + or – repeatedly until the desired setting appears. Then press **ENTER**.

When you press **SET** – repeatedly, the indicator at DATE will change as follows, in this case the day is Friday.

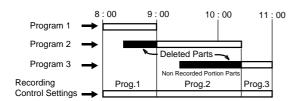
The current day (Friday) → SU-SA (Sunday to Saturday)





### In case Timer programs-overlap

 Do not overlap timer programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown in the diagram below.



### NOTES:

- The daily/weekly recording can be made continuously until the recording is canceled or the tape reaches the end.
- During timer recording the automatic rewinding mechanism does not function.

# Confirmation / Cancellation of the Timer recording

1 If the Timer has been activated, press TIMER REC to deactivate the Timer. The clock symbol(□) will disappear. Then press VCR/DVD to change to VCR mode.

### **2** To confirm Timer program:

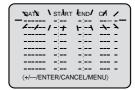
At picture 1 on the previous page select the "TIMER REC SET" option and press **ENTER**.

Then the timer program list as right will appear on the screen.



### 3 To cancel Timer program:

Press **SET** + or - to select the unnecessary program, then press **CANCEL** to cancel the program.



4 Press VCR MENU repeatedly until the TV-picture appears.

### NOTES:

- If there are other timer record programs remaining, TIMER REC must be pressed to reactivate the timer, otherwise the remaining timer record programs will be ignored.
- You cannot confirm the Timer program during timer recording operation.
- You can correct or cancel a programmed setting in program confirm mode.

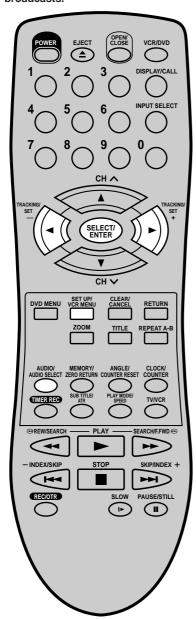




### Stereo recording and playback / Separate Audio Program (SAP)

### Stereo recording and playback

The VHS Hi-Fi audio system permits high fidelity recording of MTS STEREO TV broadcasts.



### NOTES:

- When playing back a tape that is not recorded in Hi-Fi stereo mode, the audio will automatically be monaural.
- When listening to a VHS Hi-Fi video tape or MTS broadcast through the VHF/UHF jack (Audio/Video cord not connected), the sound will be monaural.

When a MTS STEREO broadcast is received, the word STEREO will appear on the screen and the program can be viewed or recorded in stereo.

The Hi-Fi STEREO recording procedure is the same as for normal recordings.



### NOTE:

When using a CATV system, stereo TV programs may be transmitted over a mono cable channel. In this case the word "STEREO" will not appear and the sound will be in mono.

### **Output selection**

When viewing an MTS STEREO TV program, or playing a prerecorded VHS Hi-Fi STEREO videotape, press AUDIO SELECT to select how the audio will be heard through the speakers. Normally set to the Hi-Fi STEREO position, this button can be set to the MONO position if the stereo broadcast or videotape audio is of poor quality. The "R" and "L" positions allow the audio from the Right or Left Hi-Fi channel to be heard over both TV speakers. This button has no effect when viewing a MONO videotape or TV program. Each time when you press the button, OUTPUT SELECTION display appears on the screen for several seconds. Refer to the chart below.

OUTPUT SELECTION	SOUND HEARD ON BOTH SPEAKERS
STEREO	STEREO
L CH	LEFT CHANNEL AUDIO
R CH	RIGHT CHANNEL AUDIO
MONO	MONO

### Separate Audio Program (SAP)

Your VCR is fitted with a SAP broadcast system which enables you to switch to a separate audio program when viewing a selected channel.

This function applies only when the program is broadcast in multi-languages through the SAP broadcast system.

Press VCR MENU. Then press ◀ or ▶ to select "SAP".

Then press **ENTER** to select [ON].

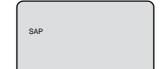
Then press VCR MENU until the menu screen is cleared.



### Listening to SAP

When the VCR is turned on or a channel selection is made, make certain the letters "SAP" appears on the screen. This means that the "Separate Audio Program" broadcasting is available.







### **Duplicating a video tape**

### **Duplicating a video tape**

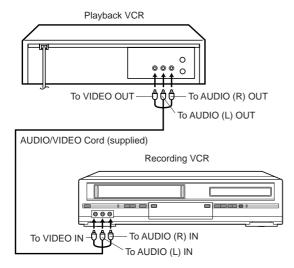
If you connect the VCR to another VCR or camcorder, you can duplicate a previously recorded tape. Make all connections before turning on the power.

- 1 Load a blank cassette tape with the erase prevention tab intact into the recording VCR. Load a previously recorded tape into the playback VCR or CAMCORDER.
- Press **SPEED** to select the desired tape speed SP or SLP.
  It is recommended that you set the Speed to the

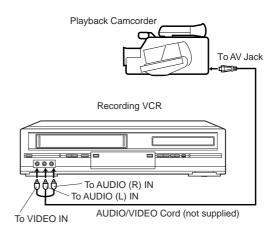
SP mode on the recording VCR for best results.

- Press INPUT SELECT to select AUDIO/VIDEO input position. "L" will appear in the display.
- 4 Press REC/OTR on the recording VCR, then press PAUSE/STILL.
- 5 Press PLAY on the playback VCR or CAMCORDER, then press PAUSE/STILL.
- 6 Release the recording pause and the playback still simultaneously to begin the duplicating process.

### Connection with second Video recorder



### **Connection with Video camera**



For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions. A typical camcorder dubbing hookup is shown above.





### Disc

This unit applies to DVD discs from Region 1 only.

The loaded Disc (DVD, Audio-CD and MP3-CD) will be recognized automatically.

The suitable Disc-formats are: DVD, CD-R and CD-RW.

Some CD-R/RW discs may be incompatible.

Do not play DVD-ROM, DVD-Audio, CDV, Video-CD, CD-G or Photo CD to prevent accidental erasure of prerecorded material.

This unit cannot record disc material in DVD, Audio CD etc. onto a video tape.

If you press the REC/OTR during DVD playback, a symbol mark " → ★ □ will appear on the screen for aprox.4 seconds.

### Title

When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a "TITLE".

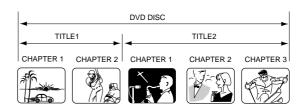
### Chapter

The titles can be subdivided into many sections. Each section is called a "CHAPTER".

### **Track**

An Audio CD can contain several items.

These are assigned to the tracks.







Be sure to hold the edge of disc. Do not touch the surface of the disc. Pick up the disc gently from the case.

- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.

### **Storing Disc**

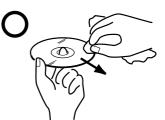
- Store the disc in the case to avoid risk of scratches, dirt or damage.
- Do not leave disc exposed to direct sunlight or in hot or humid places.

### **Cleaning Disc**

Wipe the disc with a clean, dry cloth from center to edge.

- Do not wipe the disc round.
- Do not use liquid or aerosol cleaners.











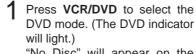


The setup language can be selected.

**Setting setup language** 

### Preparation:

- Turn ON the TV and set to the video input mode.
- When using an amplifier, switch on the amplifier.

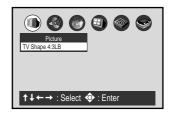


"No Disc" will appear on the screen. (If a DVD disc has already loaded, the playback will start automatically.)



Press **SET UP** in the stop mode. The SETUP MENU of DVD will appear on the screen.

Then press ◀ or ▶ to select "Language".



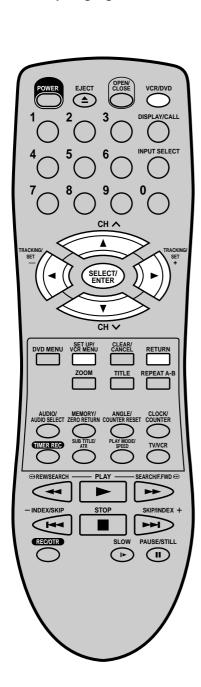
3 Press ▲/▼ to select On-Screen Language, then press ENTER.



4 Press ▲/▼ to select desired language: English (English), French (Français) or Spanish (Español), then press ENTER.



**NOTE:** To make the SETUP screen disappear, press **SET UP** (or **RETURN**).



If the DVD/VCR does not operate properly: Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.

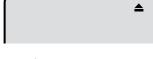




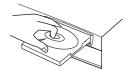
### Playback procedure

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)
- 1 Press **OPEN/CLOSE**. The disc tray will open.



Place a disc onto the tray.
Hold the disc, position it with the printed label side up, align it with the guides, and place it in its proper position.



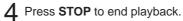
Press PLAY or OPEN/CLOSE. The disc tray closes automatically.

On the screen, **≜** changes to "⊘" and then playback will commence.



 A menu screen may appear on the TV screen, if the disc has a menu feature. In this case, press ▲, ▼, ◄, ▶ or ENTER to operate a menu





feature.

- The DVD/VCR memorizes the stopped point, depending on the disc. "To Return To The Last Scene Viewed, Press Play. To Disable This Operation, Press STOP Again." appears on the screen for approx. 4 seconds. "▶" will continue blinking in the display until the playback is stopped completely. Press PLAY to resume playback (from the scene point).
- If you press **STOP** again ("■" appears on the screen) or unload the disc, the DVD/VCR will clear the stopped point.
- 5 Then press OPEN/CLOSE.

The disc tray opens.

Remove the disc and press POWER.

The disc tray closes automatically and DVD/VCR turns off.

#### NOTES:

- If a non-compatible disc is loaded, "Please Check Disc", "Disc playback unauthorized Consult owners manual for further information" or "Parental Lock" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (See pages 35 and 45).
- Some discs may take a minute or so to start playback.

SKIP/INDEX

PAUSE/STILL

- A "Prohibition" symbol  $\bigcirc$  may appear at the upper right of the screen. This symbol means either the feature you tried is not available on the disc, or the DVD/VCR can not access the feature at this time. This does not indicate a problem with the DVD/VCR.
- When you set a single-faced disc label downwards (ie. the wrong way up) and press PLAY or OPEN/CLOSE,
   "" will appear and remain on the screen for approx. 40 seconds and then it will change to "Please Check Disc".
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this DVD/VCR plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.
- When playing DTS-encoded Audio CDs, excessive noise will be heard from the analog stereo outputs. To avoid
  possible damage to the audio system, the consumer should take proper precautions when the analog stereo
  outputs of the DVD/VCR are connected to an amplification system.

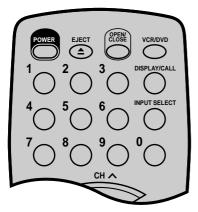
2A77001AE(34-39) 37 8/29/02, 10:55 AM





### Special playback

Note: There may be a slight delay between pressing the button and the function activation.





#### NOTES:

- The unit is capable of holding a still video image or On screen display image on your television screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible.
- Some titles may not display chapter numbers.
- When you set "Title Stop" to "Off" (See page 53), you can access chapter in another title. If you go back to the preceding title by pressing the SKIP, the DVD/VCR locates the first chapter of the title. When "Title Stop" is set to "On". you can access chapters only within the current title.

#### **Fast Forward Playback**

Press F.FWD during normal playback.

Each press of **F.FWD** will increase the speed of the search  $x2 \ (\blacktriangleright \blacktriangleright)$ ,  $x8 \ (\blacktriangleright \blacktriangleright)$ ,  $x30 \ (\blacktriangleright \blacktriangleright \blacktriangleright)$ ,  $x100 \ (\blacktriangleright \blacktriangleright \blacktriangleright)$ . (in case of Audio-CD:  $x4 \ (\blacktriangleright \blacktriangleright)$  and  $x8 \ (\blacktriangleright \blacktriangleright)$  are available)

• To resume normal playback, press PLAY.

#### **Review Playback**

Press **REW** during normal playback.

Each press of **REW** will increase the speed of the search x2 ( $\blacktriangleleft$ ), x8 ( $\blacktriangleleft$ ), x30 ( $\blacktriangleleft$ ), x100 ( $\blacktriangleleft$ ). (in case of Audio-CD: x4 ( $\blacktriangleleft$ ) and x8 ( $\blacktriangleleft$ ) are available)

• To resume normal playback, press PLAY.

#### Still Playback

Press **PAUSE/STILL** during normal playback.

To resume normal playback, press **PLAY**.



#### **Frame Advance**

Press **PAUSE/STILL** during still playback

One frame is advanced each time you press **PAUSE/STILL**.

To resume normal playback, press **PLAY**.



#### **Slow-motion Playback**

Press **SLOW** during normal playback or still playback. Each press of **SLOW** will change the speed of the slow x1/2, x1/4, x1/8.

- To resume normal playback, press PLAY.
- To resume the still playback, press PAUSE/STILL.

#### Locating a chapter or track

Press **SKIP** (►►) Forward or **SKIP** (►►) Reverse during playback to locate a chapter or track that you want to watch.

Each time you press the button, a "C (chapter)" number or "T (track)" number is skipped.



When you press **SKIP** ( I◄◄), playback starts from the beginning of the current chapter or track.

When you press **SKIP** ( $\blacktriangleleft$ ) twice, playback starts from the beginning of the preceding chapter or track.





### Zooming

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

#### Zooming

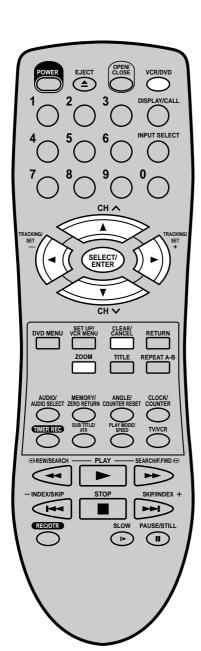
This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

The center part of the image will be zoomed in.
As you repeatedly press the ENTER or ZOOM while "ZOOM" is selected, the magnification level changes. Variation of the levels includes image reduction.

Press **ZOOM** during playback.



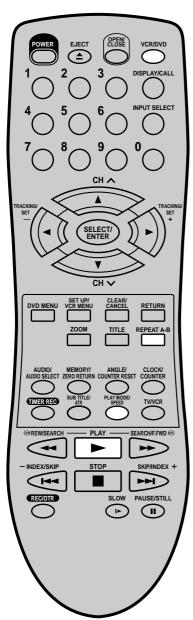
- If you select "EXIT" and press the ENTER, you can turn off the symbol mark, keeping the current magnification level.
- Press ▲/▼ or ◀/▶ to view a different part of the frame. You may move the frame from the center position to UP, DOWN, LEFT or RIGHT direction.
  - Press CLEAR to restore the zoom point to the center of the picture.
- While "ZOOM" is selected, press ZOOM repeatedly to return to a 1:1 view.







### Repeat playback



#### NOTES:

- Some discs may not work with the repeat operation.
- In A-B repeat mode, subtitles near point A or B may not appear.
- During the A-B Repeat Playback the ANGLE feature will not operate.
- You may not be able to set A-B Repeat, depending on the scenes of the DVD.
- A-B repeat does not work with an interactive DVD and MP3-CD.
- Random playback can not be combined with Repeat playback.

**40** 

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

#### REPEAT PLAYBACK

1 Press PLAY MODE repeatedly to select "Chapter Repeat", "Title Repeat" or "ALL Repeat". (In case of CD, select "Track Repeat" or "ALL Repeat".)



During playback repeat playback will start automatically. During stop mode press PLAY within about 5 seconds after you press PLAY MODE to start repeat playback.

• To resume normal playback, select Off.

#### **A-B Repeat Playback**

A-B repeat playback allows you to repeat material between two selected points.

1 Press REPEAT A-B during playback.

The start point is selected.

Press REPEAT A-B again.
The end point is selected.
Playback starts at the point that
you selected. Playback stops at
the end point, returns to Point A
automatically, then starts again.

To resume normal playback, press **REPEAT A-B** again.

"Repeat Off" appears on the screen.





### Memory playback/Random playback

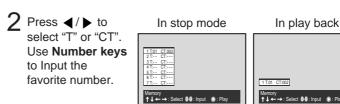
#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

#### Memory playback

You can arrange the order of titles, chapter or tracks on the disc.

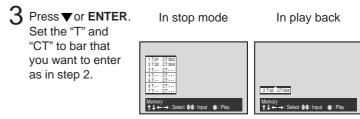
Press MEMORY. In stop mode In play back



T: Title number

CT : Chapter number or track number

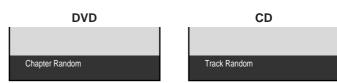
- If you input a large number than the number that is recorded on the disc, the bar will be skipped.
- The input number into "T" for CD or MP3 is not effective.



- When you select another chapter in the same title, you do not need to select the title number.
- To cancel the programmed selection, press CANCEL.
- 4 Press PLAY to start MEMORY playback.
  - To resume normal playback, press CANCEL.

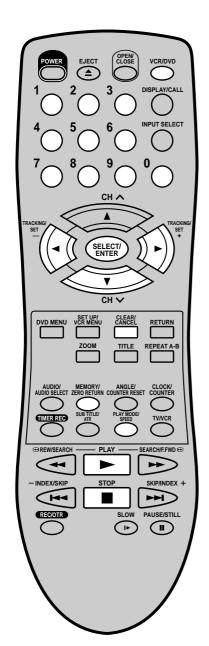
#### Random playback

1 Press **PLAY MODE** repeatedly to select "Chapter Random" or "Title Random".(In case of CD, select Track Random)



- During playback random playback will start automatically. During stop mode press PLAY within about 5 seconds after you press PLAY MODE to start random playback.
  - To resume normal playback, select Off.

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#### NOTES:

- The memory playback is cancelled when press STOP during memory playback.
- Random playback can not be combined with Repeat playback.
- You can program up to 30 selections into the memory.
- Depending on the DVD, Chapter Random operation may not work during playback.
- You cannot use the random playback with memory playback.



2A77001AE(40-45)

### **MP3 Playback**

This player can play back the MP3-data which has been recorded on CD-R or CD-RW. To produce the MP3-data, you need a Windows-PC with CD-ROM drive and a MP3-encoding Software (not supplied).

The Apple-HFS-System can not be played.

#### **MP3 CD Information**

#### Limitations on MP3 CD playback

- MP3 CD is the disc that is standardized by ISO9660, its file name must include 3-digits extension letters, "mp3".
- The directory and file names of the MP3 CD must correspond to the ISO standardized files.
- This unit can read 200 files per disc. If one directory has more than 200 files, it reads up to 200 files, the remaining files will be omitted.
- As for multi-session disc, only the first session can be played.
- If the CD has both audio tracks and MP3 files, only audio tracks are played.
- It may take more than one minute for this unit to read MP3 files depending on its structure.
- Music recorded by "Joliet Recording Specification" can be played back, the file name is displayed (within 8 letters) on the screen. Long file names will be condensed.
- The music files recorded by "Hierarchical File System" (HFS) cannot be played.

#### Limitations on display

- The maximum number for display is 8 letters. Available letters for display are the following: capital or small alphabets of A through Z, numbers of 0 through 9, and \_ (under score).
- Other characters than those above are replaced in hyphen.

#### Notes on MP3 files

To play back MP3 CD in the recorded order,

- 1. Use MP3 software that records data alphabetically or numerically.
- Name each file including a two-digit or threedigit number (e.g. "01" "02" or "001" "002").
- 3. Refrain from making too many sub-folders.

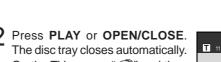
#### **CAUTION:**

- Some MP3 CDs can not be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3 files can not be played back.

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)
- Press **OPEN/CLOSE**. The disc tray will open.

Place a disc onto the tray.



On the TV-screen, "" and then reading file number will appear. Reading will take as much time as the number of file.





- Press ▲/▼ or ◀/▶ to select the desired track, then press ENTER. Track is selected and play commences.
  - In case the folder includes more than 9 tracks, press ◀/
     to display next track list.
  - To remove track list, press CANCEL.
  - Press ◀/▶ to select "T" and press Number keys your desired to input.



- 5 Press STOP to end playback.
  - The unit records the stopped track.
     Press PLAY to resume playback (from the beginning of track).
  - If you press **STOP** again or unload the disc, the unit will clear the stopped track.
- 6 Press OPEN/CLOSE.

The disc tray opens.

Remove the disc and press POWER.

The disc tray closes automatically and DVD/VCR turns off.

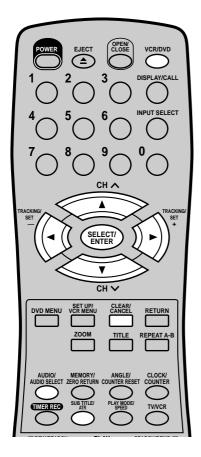
#### NOTES:

- During MP3-Playback, you can not use SEARCH, A-B Repeat functions.
- You can use Repeat(Track or All) and Random functions for MP3 CD Playback.(See page 40 and 41)





### Changing soundtrack language / Changing Subtitles language



#### NOTES:

- If the desired language is not heard after pressing AUDIO several times, the language is not recorded on the disc.
- Changing soundtrack or subtitle language is cancelled when you open the disc tray or turn the power off. The initial default language or available language will be heard and seen if the disc is played back again.
- Depending on the DVD you may be unable to turn on, turn off, or change the subtitles, even if they are recorded on the disc. While playing the DVD, the subtitle may change while opening or closing the disc tray, or while changing the title.
- During some scenes, the subtitles may not appear immediately after you select "On".
- The abbreviation of the language appears instead of the language name.
   Refer to the list of languages and their abbreviations. (See on page 57.)

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

#### Changing soundtrack language

You can select the language when you play a multilingual disc.

Press **AUDIO** during playback. The current soundtrack language is displayed.



- Press AUDIO repeatedly until the desired language is selected. The on-screen display will disappear after a few seconds.
  - To turn off the soundtrack setting display,press the CLEAR or ENTER.



#### **Changing Subtitles language**

You can select the language when playing back a disc recorded with multi-lingual subtitles.

1 Press **SUB TITLE** during playback.

Then press  $\triangle/\nabla$  to select the desired language.

- To turn off the subtitle setting display, press the CLEAR or ENTER.
- To turn the subtitles off, select "Off".



Press **SUB TITLE** or **◄/▶** to turn Subtitles on or off.



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### Changing angles / Title selection / DVD menu

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

### **Changing Angles**

When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from.

1 Press **ANGLE** during playback. The current angle will appear.



- 2 Press ANGLE or ▲/▼repeatedly until the desired angle is selected.
  - To turn off the angle number display, press the CLEAR.
  - You can change the camera angle directly by pressing the number keys corresponding to its angle number instead of using the ▲/▼.

#### **Title Selection**

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1 Press TITLE during playback.
Title menu appears on the screen.

 Press TITLE again to resume playback at the scene when you pressed TITLE.

- Press ▲/▼ or ◀/▶ to select the desired title.
- Press ENTER or PLAY.
  The playback of the selected title will start.

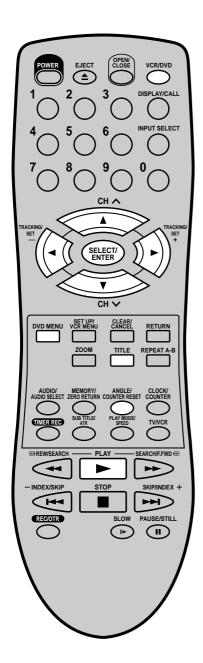
#### **DVD Menu**

Some DVDs allow you to select the disc contents using the menu.

When you play back these DVDs, you can select the subtitle language and sound-track language,etc. using the DVD menu.

- 1 Press **DVD MENU** during playback. The DVD menu appears on the screen.
  - Press DVD MENU again to resume playback at the scene when you pressed DVD MENU.
- Press ▲/▼ or ◀/▶ to select the desired item.
  - Press **ENTER**.

    The menu continues to another screen. Repeat steps **2** and **3** to set the item completely.



#### NOTE:

Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the disc, or you may be unable to select the title, and a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

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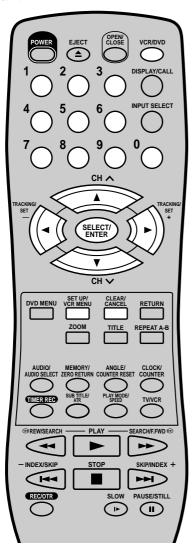






### **Parental control**

Some discs are specified not suitable for children. Such discs can be prevented from play back with the unit.



#### NOTES:

- If each setup (page 45~55) has been completed, the unit can always be worked under the same conditions (especially with DVD discs).
   Each setup will be retained in the memory if you turn the power off.
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult". For those discs, the age restriction will not work.
- Do not forget the password. If you forget the password, contact customer service.

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#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

#### Parental control setting

Press **SET UP** in the stop mode. Press **◄** or **▶** to select "Operation".



Press ▲ or ▼ to select "Parental Lock", then press ENTER.



- 3 Press ▲ or ▼ to select Off or On.
  - Off: The parental lock feature does not function.

After pressing the **ENTER**, follow step 4 below.



- On: To activate the parental lock feature or change the setting, press the **ENTER** button and follow steps 4-6 below.
- 4 Press **Number keys** to input a 4-digits password then press the **ENTER** button.
  - If you input a wrong number, press CANCEL.



Enter the code of a country/area whose standards were used to rate the DVD disc. (See the list on the page 46.)



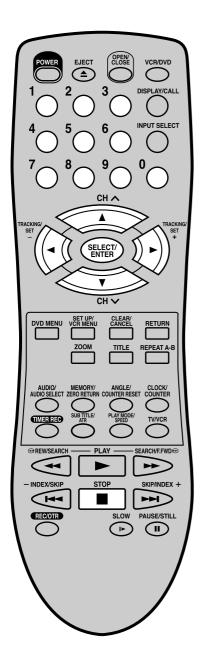
45

8/29/02, 11:08 AM



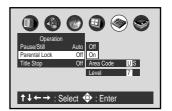


# Parental control (Continued)



Country/Area	Code	Country/Area	<u>Code</u>
AUSTRALIA	AU	NETHERLANDS	NL
BELGIUM	BE	NORWAY	NO
CANADA	CA	PHILIPPINES	PH
CHINA	CN	RUSSIAN FEDERATION	RU
CHINA HONG KONG	HK	SINGAPORE	SG
DENMARK	DK	SPAIN	ES
FINLAND	FI	SWEDEN	SE
FRANCE	FR	SWITZERLAND	CH
GERMANY	DE	TAIWAN	TW
INDONESIA	ID	THAILAND	TH
ITALY	ΙΤ	UNITED KINGDOM	GB
JAPAN	JP	UNITED STATES	US
MALAYSIA	MY		

- a) Press ▲/▼ to select the first character.
- b) Press the ◀/▶ to shift and press ▲/▼ to select the second character.
- c) Press ENTER.
- 6 Press ▲/▼ to select the parental lock level, then press ENTER.



You cannot play DVD discs rated higher than the level you selected unless you cancel the parental lock function.

For example, when you select level 7, discs rated higher than level 7 are locked out and cannot be played.

The parental lock level is equivalent to following the USA movie ratings.

Level 7: NC-17 17 years old and above

Level 6: R Under 17 years old Parental guidance suggested Level 4: PG 13 Parental guidance less than 13 years old

Level 3: PG Parental guidance

Level 1: G All ages

The parental lock levels for other countries/areas other than the U.S. are included for future use. Check the appropriate parental lock level when you buy a DVD disc equipped with the parental lock feature in the future.

7 To make the SETUP screen disappear, press **SET UP**.

## To change the parental lock level Follow steps 4- 6.

#### ■ To change your 4-digit security code

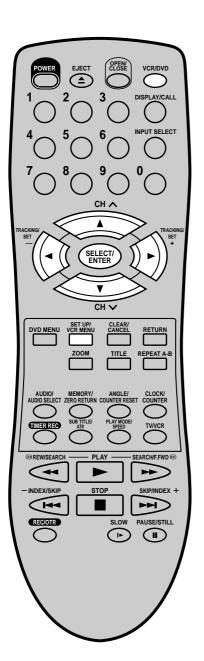
- After selecting "On" or "Off" press STOP four times, then press ENTER.
  - The 4-digit security code is cleared.
- 2) Press **Number Keys** to create a new 4-digit security code.
- 3) Press ENTER.





### Setting menu language

You can select the language of the disc menu messages of DVDs.



#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)
- Press **SET UP** in the stop mode. Press ◀ or ▶ to select "Language".



Press ▲ or ▼ to select "Disc Menu Language".



Press ENTER.

Press ▲ or ▼ to select your desired language, then press ENTER.



#### English, French, Spanish

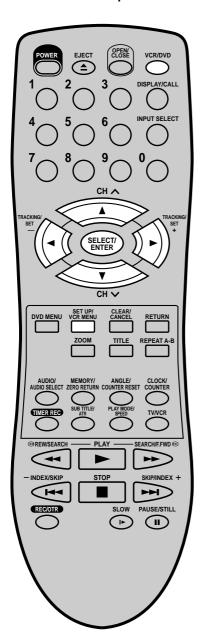
The selected language is the first-priority Menu language.

**Others:** Other languages can be selected (See the Table of languages on page 57).





The same subtitle language can always be selected even if you replace the disc or turn the power off.



#### NOTES:

- If the selected language is not recorded on the disc, the first-priority language is selected.
- Some DVD discs may be set to display Subtitles in a different language than you selected. A prior subtitle language may be programmed on the disc.

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)
- 1 Press **SET UP** in the stop mode. Press ◀ or ▶ to select "Language".



Press ▲ or ▼ to select "Subtitle Language".



3 Press ENTER.

Press ▲ or ▼ to select your desired language, then press ENTER.



#### English, French, Spanish

The subtitle is displayed with the selected language if it is recorded on the disc.

Others: If you want to select another language, enter the language code (See the Table of languages on page 57).

#### No Subtitle:

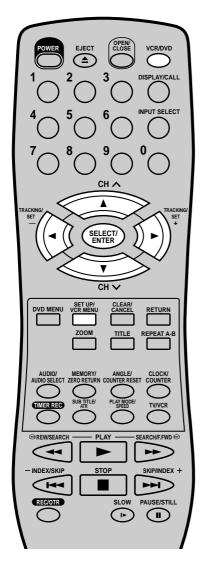
Subtitles do not appear.





### Setting audio soundtrack language

The same audio soundtrack language can always be selected by your unit even if you replace the disc or turn the power off.



#### NOTES:

- If the selected language is not recorded on the disc, the original language will be heard.
- Some DVD discs may be played in a different language than you selected.
   A prior language may be programmed on the disc.

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)
- Press **SET UP** in the stop mode. Press ◀ or ▶ to select "Language".



Press ▲ or ▼ to select "Audio Language".



Press ENTER.
Press ▲ or ▼ to select your desired Audio Language, then press ENTER.



#### English, French, Spanish

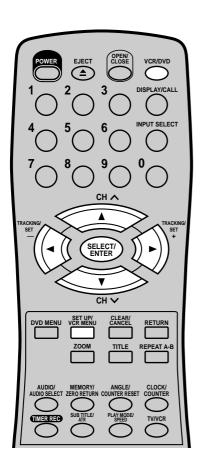
The language you have selected will play if it is recorded on the disc.

**Others:** If you want to select another language, enter the language code (See the Table of languages on page 57).



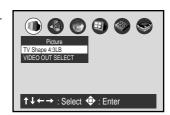
### Setting the aspect ratio of TV screen

You can select the aspect ratio for your TV.



#### **Preparation:**

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)
- Press SET UP in the stop mode.
  Press ◀ or ▶ to select
  "Picture".



Press ENTER.
Press ▲ or ▼ to select your desired screen type, then press



You have the following screen sizes to choose from:

#### 4:3 Letterbox:

ENTER.

Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.

#### 4:3 Normal:

Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Either or both sides of the picture are cut off.

#### 16:9 Widescreen:

Select this mode when connecting to a wide-screen TV. A wide screen picture is displayed full size.

 $oldsymbol{3}$  To make the SETUP screen disappear, press **SET UP**.

#### NOTES:

- The displayable picture size is preset on the DVD video disc. Therefore, the playback picture of some DVD video discs may not conform to the picture size you select.
- When you play DVD video discs recorded in the 4:3 picture size only, the playback picture always appears in the 4:3 picture size regardless of the TV shape setting.
- If you select "16:9 widescreen" and you own a 4:3 TV set, the DVD playback picture will be horizontally distorted during playback. Images will appear to be horizontally compressed. Always be sure that your TV shape conforms to the actual TV in use.





### **Setting on Screen display**

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)
- Press **SET UP** in the stop mode. Press **◄** or **▶** to select "Display"

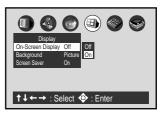


Press ▲ or ▼ to select "On-Screen Display".



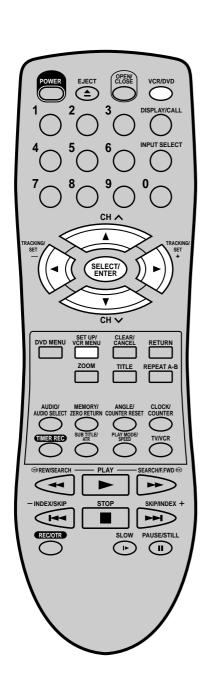
3 Press ENTER.

Press ▲ or ▼ to select "On" or "Off", then press **ENTER**.



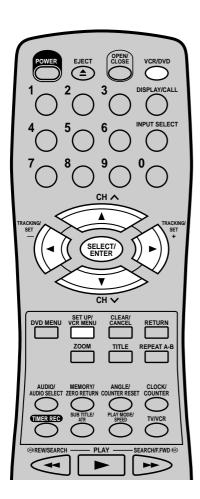
On: Operational modes (e.g. "¡, "▶▶") appear when you press the buttons (factory setting).

Off: Operational modes (e.g. "¡↓", "▶▶") do not appear when you press any buttons.





### **Setting Audio**



#### NOTES:

- The Dynamic Range Control function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Control may differ depending on the DVD video disc.
- The vocal output feature is used during playback of Dolby Digital (multi-channel) recorded DVD KARAOKE discs. This feature allows you to turn off vocal audio tracks, or restore them for background accompaniment.
- When playing KARAOKE, connect the appropriate audio equipment such as an amplifier to the DVD player.

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

#### **Audio Out Select**

Select the output sound format corresponding to your system connection.

For details of sound recording systems, see on page 55.

- Press **SET UP** in the stop mode. Press **◄** or **▶** to select "Audio".
- Press ▲ or ▼ to select "Audio Out Select", then press ENTER. Press ▲ or ▼ to select your desired output sound, then press ENTER.



Bitstream: Select when connected to an amplifier equipped with a Dolby

Digital, DTS, MPEG1 or MPEG2 decoder. The DVD/VCR outputs digital audio information in the bitstream format when you play a DVD video disc recorded on the Dolby Digital, DTS, MPEG1 or MPEG2 recording protects.

MPEG2 recording system.

 $\textbf{Analog 2ch:} \quad \text{Select when connected to a TV, Dolby Pro Logic or stereo system}$ 

via the analog audio jacks.

**PCM:** Select when connected to a 2 channel digital stereo amplifier.

The DVD/VCR outputs sounds in the PCM 2ch format when you play a DVD video disc recorded on the Dolby Digital. MPEG1 or

MPEG2 recording system.

 ${f 3}$  To make the SETUP screen disappear, press **SET UP**.

#### **Dynamic Range Control**

Turn on or off a function that makes faint sounds easier to hear even if you lower the volume during late hours playback.

- Press **SET UP** in the stop mode. Press **◄** or **▶** to select "Audio".
- Press ▲ or ▼ to select "Dynamic Range Control", then press ENTER. Press ▲ or ▼ to select "On" or "Off", then press ENTER.



Off: Full dynamic range is maintained. On: Dynamic range is reduced.

To make the SETUP screen disappear, press **SET UP**.

#### **Karaoke Vocal**

Turn on or off the vocal output during DVD KARAOKE disc playback.

- Press **SET UP** in the stop mode. Press **◄** or **▶** to select "Audio".
- Press ▲ or ▼ to select "Karaoke Vocal", then press ENTER.

Press  $\blacktriangle$  or  $\blacktriangledown$  to select "On" or "Off", then press **ENTER**.



Off: The primary vocal is not output.
On: The primary vocal is output when it is recorded on the disc.

 ${\footnotesize \begin{array}{c} \textbf{3} \text{ To make the SETUP screen disappear,} \\ \textbf{press SET UP.} \end{array}}$ 







### **Setting Operation**

#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

#### Pause/Still

Select the resolution of still pictures.

Press **SET UP** in the stop mode. Press **◄** or **▶** to select "Operation".



Press ▲ or ▼ to select "Pause/ Still", then press ENTER. Press ▲ or ▼ to select "Auto" or "Frame", then press ENTER.



**Auto:** For normal use. Still and fast motion images can be paused.

Frame: The resolution of still pictures is improved, so that you can make a motionless picture clearer when you pause it.

3 To make the SETUP screen disappear, press SET UP.

#### **Title Stop**

On:

Turn on or off a feature that automatically stops playback after a title has been viewed.

Press **SET UP** in the stop mode.

Press **◄** or **▶** to select "Operation".



Press ENTER, then press ▲ or ▼ to select "Title Stop", then press ENTER.

Press  $\blacktriangle$  or  $\blacktriangledown$  to select "On" or "Off", then press **ENTER**.

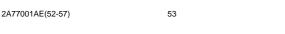
Off: The DVD/VCR continues after playback of a title is completed.

The DVD/VCR stops after playback of a title is com-



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3 To make the SETUP screen disappear, press SET UP.



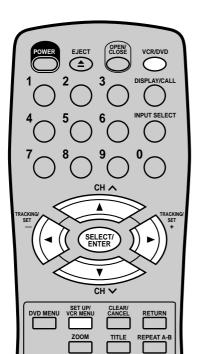
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### **Setting Background/Setting Screen Saver**



#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

#### **Setting Background**

Select the background color or background picture.

Press **SET UP** in the stop mode. Press **◄** or **▶** to select "Display".



Press ▲ or ▼ to select "Background", then press ENTER. Press ▲ or ▼ to select your desired background, then press ENTER.



**Blue:** Blue background. **Gray:** Gray background.

**Picture:** Use the picture which appears when you turn on the

DVD/VCR as a background.

Jacket: Use the jacket picture included on some discs as a

background. If it is not included, a gray background will

be substituted.

3 To make the SETUP screen disappear, press SET UP.

#### Setting Screen Saver (DVD only)

To turn the screen saver on or off.

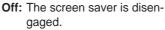
Press SET UP in the stop mode.
Press ◀ or ▶ to select
"Display".



Press ▲ or ▼ to select "Screen Saver", then press ENTER.

Press ▲ or ▼ to select "On" or

"Off", then press ENTER.



On: The screen saver operates in 10 minutes after you press PAUSE/STILL.



 ${f 3}$  To make the SETUP screen disappear, press **SET UP**.

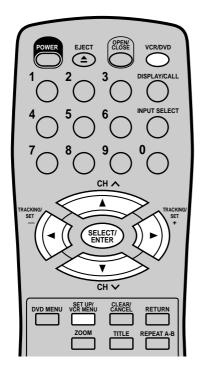






### Setting initial setup/output sound conversion table

You can install the initial system setting.



#### Preparation:

- Turn ON the TV and set to the video input mode.
- Press VCR/DVD to select the DVD mode. (The DVD indicator will light.)

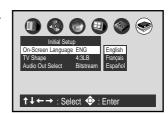
#### **Setting initial setup**

Press SET UP in the stop mode.

Press ◀ or ▶ to select "Initial Setup".



Press ENTER, then press ▲ or ▼ to select "On-Screen Language", "TV Shape" or "Audio Out Select".



On-Screen Language: See on page 36.
TV Shape: See on page 50.
Audio Out Select: See on page 52.

3 To make the SETUP screen disappear, press SET UP.

#### Output sound conversion table (sampling frequency/quantization bit)

You can select the output sound format corresponding to your system connection (see page 52).

			"Bitstream"		"Analog 2ch"		"PCM"	
Discs Recording syste	g system		ANALOG AUDIO	DIGITAL AUDIO	ANALOG AUDIO	DIGITAL AUDIO	ANALOG AUDIO	
			OUT jack					
	Dolby	Digital	Bitstream	48 kHz/20 bit	Bitstream	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
DVD video discs		48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
	Linear PCM	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
		48 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit
		96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit	_	96 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
		96 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit	_	96 kHz/20 bit	48 kHz/16 bit	48 kHz/20 bit
		96 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit	_	96 kHz/24 bit	48 kHz/16 bit	48 kHz/24 bit
	DTS		Bitstream	_	Bitstream	-	_	_
	MPEG1,	MPEG2	Bitstream	48 kHz/16 bit	Bitstream	48 kHz/16 bit	48 kHz/16 bit	48 kHz/16 bit
Audio CDs	Linear PCM 44.1 kHz/16 bit		44.1 kHz/16 bit					
Audio CDS F	DT	S	Bitstream	(Noise)	Bitstream	(Noise)	Bitstream	(Noise)

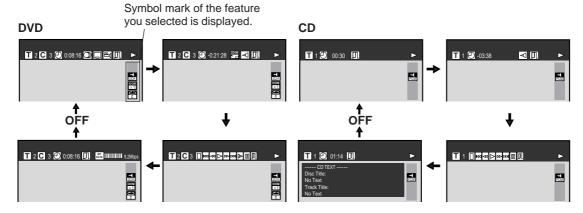




### Status display of Disc

You can view information on the operation status and access the settings.

With each press of **DISPLAY**, the status of the disc will appear on the screen and change as follows.



Press ◀ or ▶ to select the desired symbol mark, then press ENTER.

T: Title number (Track number)

Press  $\triangle/\nabla$  or Number keys to locate a title or track, then press **PLAY**.

Elapsed (remaining) time of the current title Press **Number keys** to locate a desired Location, then press **PLAY**.

See page 43.

To zoom a picture See page 39.

: To stop playback See page 37.

 : Fast forward playback See page 38.

: To turn off the display

**CD TEXT** 

Displays CD text data if included on the audio CDs. (Some letters may not be displayed properly depending on the disc.)

C : Chapter number

Press  $\blacktriangle/\blacktriangledown$  or Number keys to locate a Chapter, then press **PLAY**.

Audio setting See page 43.

Angle setting See page 44.

→ : Audio Out Select setting

BST: Bitstream 2CH:Analog 2ch PCM:PCM See page 52.

: Playback starts from the beginning of the current chapter or track.
See page 38.

: To locate succeeding chapters or tracks. See page 38.

: To pause playback See page 38.

Data transfer rate (Mbit/s)

Amount of picture, sound and subtitle data in the DVD video disc transferred per second.

The larger the value is, the more data processed, but this does not necessarily insure better picture quality.



Enter the appropriate code for the initial settings "Audio", "Subtitle" and/or "Menu" (see pages 47-49).

Abbreviation	Language
	No alternate
0111 (711)	language
CHI (ZH)	Chinese
DUT (NL)	Dutch
ENG (EN)	English
FRE (FR) GER (DE)	French German
ITA (IT)	Italian
JPN (JA)	Japanese
KOR (KO)	Korean
MAY (MS)	Malay
SPA (ES)	Spanish
AÀ	Afar
AB	Abkhazian
AF	Afrikaans
AM	Amharic
AR	Arabic
AS	Assamese
AY	Aymara
AZ	Azerbaijani
BA	Bashkir
BE	Belorussian
BG	Bulgarian Bihari
BH BI	Bislama
BN	Bengali, Bangla
BO	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
FA	Persian
FI	Finnish
FJ FO	Fiji
FO FY	Faroese
GA	Frisian Irish
GD	Scottish Gaelic
GL	Galician
OL.	Januan

Abbreviation	Language
GN	Guarani
GU	Gujarati
HA	Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue
IK	Inupiak
IN	Indonesian
	Indonesian
IS NA/	
IW	Hebrew
JI NAZ	Yiddish
JW	Javanese
KA	Georgian
KK	Kazakh
KL	Greenlandic
KM	Cambodian
KN	Kannada
KS	Kashmiri
KU	Kurdish
KY	Kirghiz
LA	Latin
LN	Lingala
LO	Laotian
LT	Lithuanian
LV	Latvian, Lettish
MG	Malagasy
MI	Maori
MK	Macedonian
ML	Malayalam
MN	Mongolian
MO	Moldavian
MR	Marathi
MT	Maltese
MY	Burmese
NA	Nauru
NE	Nepali
NO	Norwegian
OC	Occitan
OM	(Afan) Oromo
OR	Oriya
PA	Panjabi
PL	Polish
PS	Pashto, Pushto
1 3	i asiito, r usiito

Abbreviation	Language
PT	Portuguese
QU	Quechua
RM	Rhaeto-Romance
RN	Kirundi
RO	Rumanian
RU	Russian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sango
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
TH	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
TO	Tongan
TR	Turkish
TS	Tsonga
TT	Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
VI	Vietnamese
VO	Volapük
WO	Wolof
XH	Xhosa
YO	Yoruba
ZU	Zulu

**—** 



### **Problems and troubleshooting**

Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or service outlet if problems persist.

Be sure all connections are properly made when using with other units.

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
DVD/VCR		
DVD/VCR does not operate.	Make sure the power cord is plugged in.     Try another AC outlet.     Power is off, check fuse or circuit breaker.     Unplug unit, then plug it back in.     Select the DVD or VCR mode before operating.	5 - - 5 18,36
No picture.	<ul> <li>Antenna connection is not correct or antenna cable is disconnected.</li> <li>The video channel is not in the correct position or the TV is not set to the video channel 3 or 4.</li> <li>Check the unit is connected correctly.</li> <li>The video input selector of the TV is not set to VIDEO. Set to VIDEO (or equivalent).</li> <li>Channel is set to the external mode.</li> </ul>	12~15 18 12~17 -
No sound.	<ul> <li>Check the unit is connected correctly.</li> <li>Check the input selector of the amplifier is set properly.</li> <li>The unit is in the Special playback mode.</li> </ul>	12~17 - 26,38
The remote control does not function.	<ul> <li>Aim at the remote control at the remote sensor.</li> <li>Operate within Approx. 5 Meters or reduce the light in the room.</li> <li>Clear the path of the beam.</li> <li>The batteries are weak. Replace the batteries.</li> <li>Check the batteries are inserted correctly.</li> <li>Check the frequency code is set correctly.</li> </ul>	11
No CATV reception	Check all CATV connections.     Station or CATV system problems, try another station.	14,15
VCR		
TV recording does not work.	•The erase prevention tab of the video cassette is broken off. •The unit is in the external input mode.	24,28
Timer recording does not work.	<ul> <li>The time is not set correctly.</li> <li>The recording start/end time is not set correctly.</li> <li>The TIMER has not been pressed (☐ is not lit).</li> </ul>	19 31 31
Noise bars on screen.	<ul> <li>Tracking adjustment beyond range of automatic tracking circuit. Try Manual tracking adjustment.</li> <li>Video heads are dirty.</li> <li>The tape is worn or damaged.</li> </ul>	26 59 -
DVD		
Display is not shown in your language.	Select proper language in the menu options.	36
Playback doesn't start.	<ul> <li>No disc is inserted.</li> <li>The disc may be dirty. Clean up the disc.</li> <li>The unit cannot play DVD-ROMs, etc.</li> </ul>	37 35 35
Stopping playback, slow-motion play, repeat play, or memory play, etc. cannot be performed.	Some discs may not do some of the functions.     When you press VCR MENU while watching a DVD with the connections of the DVD exclusive terminal (S-VIDEO cable or COMPONENT cable) to a TV, you cannot perform all the DVD functions. In this case, wait for approx. 60 seconds with no pressing of any buttons.	



### Problems and troubleshooting / Video head cleaning

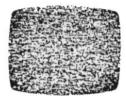
SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
No 4:3 (16:9) picture	The setup does not match your TV.	50
No on-screen display	Select Display On.	51
No surround sound	The setup does not match your stereo system.	17
The unit or remote operation key is not functioning.	Turn off the unit and unplug the AC power cord for several minutes, then replug it.	_
Playback does not start when the title is selected.	Check the Parental setup.	45
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	Multilingual language is not recorded on the DVD disc.	48,49
No subtitle	Some discs have no subtitles.     Subtitles are cleared. Press SUB TITLE.	48
Angle cannot be changed.	Multi-angles are not recorded on the DVD disc.	44
	The function is prohibited with the unit or the disc.	_

#### Video head cleaning

#### Video head clogging

The video heads are the means by which the DVD/VCR reads the picture from the tape during playback. In the unlikely event that the heads become dirty enough to be clogged, no picture will be played back. This can easily be determined if, during playback of a known good tape, there is good sound, but no picture (picture is extremely snowy). If this is the case, have the DVD/VCR checked by qualified service personnel.





**Good Picture** 

Snowy Picture

- **NOTES: •** DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE REAR COVER.
  - Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
  - To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.



FOR ADDITIONAL SET-UP OR OPERATING ASSISTANCE, PLEASE VISIT OUR WEBSITE AT WWW.MEMCORPINC.COM OR CONTACT CUSTOMER SERVICE AT 1-800-919-3647
PLEASE KEEP ALL PACKAGING MATERIAL FOR AT LEAST 90 DAYS IN CASE YOU NEED TO RETURN THIS PRODUCT TO YOUR PLACE OF PURCHASE OR MEMOREX.

FOR PARTS AND ACCESSORIES, CONTACT FOX INT'L AT 1-800-321-6993.



8/29/02, 11:05 AM



# Specifications

**GENERAL** 

Power supply: AC 120V 60Hz
Power consumption: Operation: 20W

Stand by: 3W

Weight: 9.9lbs (4.5 kg)

Dimensions: Width: 16-15/16 inches (430 mm) Height: 3-7/8 inches (99 mm)

Depth: 12-3/8 inches (314.5 mm)

Inputs/Outputs:

Video: In: 1Vp-p/75 ohm

Out: 1Vp-p/75 ohm In: -8dBm/50K ohm

Audio: In: -8dBm/50K ohm
Out: -8dBm/1K ohm

Antenna: UHF/VHF IN/OUT: 75 ohm coaxial

Hi-Fi Frequency Response: 20Hz to 20,000Hz Hi-Fi Dynamic Range: More than 90dB

**VCR** section

Video Head: 4 Rotary Heads

Audio Track: Hi-Fi Sound - 2 Tracks / MONO Sound - 1 Track

Tuner: 181 Channel Freq. Synthesized

VHF 2-13 UHF 14-69 CATV 14-36 (A)-(W) 37-59 (AA)-(WW) 60-85 (AAA)-(ZZZ) 86-94 (86)-(94) 95-99 (A-5)-(A-1) 100-125 (100)-(125)

01 (5A)

RF Channel Output: Channel 3 or 4, Switchable

F.FWD/REW Time at 25°C (77°F): Approx. 1minute and 48 seconds (with T-120 Cassette Tape)

**DVD** section

Signal system: NTSC

Applicable disc: DVD (12cm, 8cm), CD (12cm, 8cm)

Audio characteristics: DVD: 4Hz - 22KHz Frequency response: CD: 4Hz - 20KHz

S/N Ratio: 90dB Harmonic distortion: 0.01%

Wow and flutter: Below Measurable Level

Dynamic range: 90dB

Output: Video: (RCA) 1 Vp-p/75ohm

Audio: (RCA) –8 dBm/1Kohm Digital Audio: 0.5Vp-p/75 ohm

Pickup: CD: Wavelength: 775 - 805 nm

Maximum output power: 0.5 mW DVD: Wavelength: 640 - 660 nm

Maximum output power: 1.0 mW

ACCESSORIES: Remote control x 1

75 ohm Coaxial Cable x 1 AUDIO/VIDEO Cable x 1







### Memo

